



THE CITY OF
SAN DIEGO

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City of San Diego

Alvarado Water Treatment Plant

Construction Update Newsletter

June 2009

CONSTRUCTION UPDATE

PHASE IV – OZONE:

Ozone project making progress



The City is making progress with the construction of the Ozone Project, Phase IV. The project consists of construction of a new ozone building, ozone contactors and equipment. Construction started in June 2008 and will be completed at the end of 2010. However, with the project progressing efficiently, it's anticipated to be completed ahead of schedule. Phase IV of the project is estimated at a cost of \$61 million dollars and will bring a multitude of benefits for years to come. Not only will the project increase capacity and improve reliability to meet current and future water needs, it will also meet or exceed the new State water quality regulations. This state-of-the-art process is vital in providing additional improvements to the quality of the drinking water coming from this facility to the residents of San Diego.

Ozone is a strong oxidant and will be used as the primary water disinfectant at the plant. The implementation of using ozone to purify the resident's drinking water helps to minimize the use of the chemical chlorine.

The City Benefits From SRF Loan Program

The State Revolving Fund (SRF) loans are intended to be used to fund improvements to community water systems, both public and private, and nonprofit non-community water systems. The SRF Loan Program is a joint Federal/State funded program designed to help California meet the goals of the Federal Clean Water Act (33 U.S.C.A. 1251 et seq.). The SRF Program makes low interest loans for water, wastewater and water recycling system improvements, correction of non-point source and storm water pollution problems, and implementation of estuary enhancement programs. The Program receives funds from United States Environmental Protection Agency (U.S. EPA) Federal Capitalization Grants (Federal Grants), State Bond measures, the sale of Revenue Bonds, and the repayment of outstanding loans. The City obtains its imported water supplies from SDCWA, which in turn purchases imported water from Metropolitan Water District (MWD). This imported water arrives from the Colorado River through the Colorado River Aqueduct (CRA) and from northern California through the State Water Project.

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"Working together to engineer a better tomorrow."

If you have any questions about this project or the Engineering & Capital Projects Department, please call our Public Information Line at (619) 533-4207 or visit us online at www.sandiego.gov/engineering-cip.

PHASE III-REHAB BASINS 1 & 2 **AWTP Enters a New Phase**

As part of the City's Capital Improvements Program, the Alvarado Water Treatment Plant (AWTP) is undergoing an upgrade and expansion to increase its treatment capacity, to provide infrastructure improvements to address new Federal Drinking Water Standards, and improve the operations and maintenance at the facility. The existing flocculation/sedimentation basins 1 & 2 require rehabilitation and upgrades. These new improvements are considered the third phase of the AWTP upgrade & expansion project. The Phase III project consists of partial demolition of both flocculation basins; and the construction of new influent and effluent pipelines, overflow channels, flocculation basins and flocculator systems, modification of the settled water conduit to accommodate



conveyance of ozonated settled water to the filters on the west end of the plant, upgrades of sedimentation equipment, and the sludge collection and conveyance systems. Phase III of the project is estimated at a cost of \$20 million dollars and all these improvements will have a useful life of fifty to seventy five years.

This project was advertised on January 15, 2009 and opened bids on March 10, 2009. It is expected to start construction/rehabilitation in July 2009 and will be completed at the end of 2010.

Contact Information: Visit www.sandiego.gov/engineering-cip and click on "Projects and Programs" for more information. You may also call (619) 533-4207 or send an e-mail to engineering@sandiego.gov

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